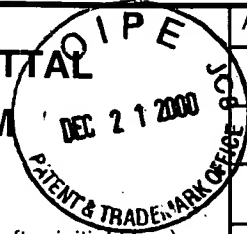
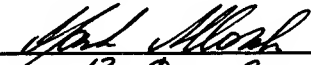

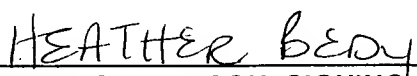


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|   |   |             |
|---|---|-------------|
| <b>TRANSMITTAL FORM</b><br><br>(for all correspondence after initial filing) | Attorney Docket No. <b>GW1-102</b>                    | Total Pages |
|   | Application Number<br><b>09/464,372</b>               |             |
|   | Filing Date<br><b>12/15/99</b>                        |             |
|   | First Named Inventor<br><b>AROGYASWAMI J. PAULRAJ</b> |             |
|   | Group Art Unit<br><b>NOT ASSIGNED</b>                 |             |
| Examiner<br><b>NOT ASSIGNED</b>   |   |             |

| ENCLOSURES (check all that apply)   |   |
|---|---|
| <input checked="" type="checkbox"/> Return Receipt Postcard (MPEP 503)<br><input type="checkbox"/> Fee Transmittal Form<br><input type="checkbox"/> Fee Attached<br><input type="checkbox"/> Response/Amendment<br><input type="checkbox"/> After Final Rejection<br><input type="checkbox"/> After Allowance communication to Group<br><input type="checkbox"/> with Corrected Drawing(s) Total Sheets: [ ]<br><input type="checkbox"/> with Affidavits/Declarations<br><input type="checkbox"/> Extension of Time Request<br><input type="checkbox"/> Express Abandonment Request | <input type="checkbox"/> Response to Notice of Missing Parts<br><input type="checkbox"/> Small Entity Statement<br><input type="checkbox"/> Declaration by Inventors<br><input type="checkbox"/> Assignment papers<br><input type="checkbox"/> Power of Attorney by Assignee<br><input checked="" type="checkbox"/> IDS/PTO-1449<br><input checked="" type="checkbox"/> with copies of cited references<br><input type="checkbox"/> New Power of Attorney and Revocation of Old<br><input type="checkbox"/> Change of Correspondence Address<br><input type="checkbox"/> Other: |

| SIGNATURE OF AGENT |   |
|--------------------|---|
| NAME               | <b>MAREK ALBOSZTA, REG. NO. 39,894</b>  |
| Signature          |  |
| Date               | <b>13 Dec. 2000</b>   |

| Certificate of Mailing by "Regular Mail"   |                                     |
|--|-------------------------------------|
| I hereby certify that this correspondence is being deposited on the date indicated below as first class mail with the U.S. Postal Service addressed to the ASSISTANT COMMISSIONER FOR PATENTS, WASHINGTON, DC 20231. |                                     |
| <br><b>SIGNATURE</b>  | DATE OF MAILING:<br><b>12/13/00</b> |
| <br><b>NAME OF PERSON SIGNING</b>   |                                     |

RECEIVED  
 DEC 28 2000  
 Technology Center 2600

**In the United States Patent and Trademark Office**

Application No.: 09/464372  
 Filed: 12/15/99  
 Title: Method and Wireless Systems Using Multiple Antennas and Adaptive Control for Maximizing a Communication Parameter  
 Applicant(s): Arogyaswami J. Paulraj et al.  
 Examiner: not yet assigned  
 Art Unit: not yet assigned



Mailed 13 Dec. 2000  
 Santa Clara, CA

**Information Disclosure Statement**

Commissioner of Patents and Trademarks  
 Washington, District of Columbia 20231

Dear Sir or Madam:

Attached is a completed Form PTO-1449 and copies of the pertinent parts of the references cited thereon. It is requested that the document(s) on the enclosed form be made of record.

**RECEIVED**

**Part I (Authority)**

**DEC 28 2000**

This statement is filed pursuant to:

**Technology Center 2600**

(X) 37 C.F.R. § 1.97(b).

This information disclosure statement is filed either (1) within three months of the filing date of the national applications; (2) within three months of the date of entry of the national stage as set forth in 37 C.F.R. § 1.491 in an international application; or (3) before the mailing date of a first office action on the merits, whichever event occurs last.

Accordingly, this information disclosure statement requires no fee and no certification.

( ) 37 C.F.R. § 1.97(c).

This information disclosure statement is filed after the period specified in 37 C.F.R. § 1.97(b), but before the mailing date of either (1) a final action under 37 C.F.R. § 1.113 or (2) a notice of allowance under 37 C.F.R. § 1.311.

Accordingly, this information disclosure statement requires either the fee specified in 37 C.F.R. § 1.17(p) for submission of an information disclosure statement under 37 C.F.R. § 1.97(c) (\$240), or a certification according to 37 C.F.R. § 1.97(e).

( ) 37 C.F.R. § 1.97(d).

This information disclosure statement is filed after the period specified in 37 C.F.R. § 1.97(c).

Accordingly, this information disclosure statement requires the petition fee specified in 37 C.F.R. § 1.17(i)(1) to consider an information disclosure statement under 37 C.F.R. § 1.97(d) (\$130), a certification according to 37 C.F.R. § 1.97(e), and a petition requesting consideration of the information disclosure statement.

**Conditional Petition**

It is respectfully requested that this information disclosure statement be considered, good cause being presented in Part III herein (certification). please treat this paper as the required petition.

If this statement crosses in the mail with an office action, or is otherwise not in the indicated category of 37 C.F.R. § 1.97, it is respectfully requested that this statement be treated in the next appropriate category and made of record.

To the extent required, please treat this paper as a conditional petition for acceptance of the information disclosure statement.

## Part II (Payment)

A check is enclosed as indicated:

- ☒ (X) No fee is due.
- ☐ ( ) The fee specified in 37 C.F.R. § 1.17(p) for submission of an information disclosure statement under 37 C.F.R. § 1.97(c) is enclosed (\$240).
- ☐ ( ) The petition fee specified in 37 C.F.R. § 1.17(i)(1) to consider an information disclosure statement under 37 C.F.R. § 1.97(d) is enclosed (\$130).

## Part III (Certification)

Pursuant to 37 C.F.R. § 1.97(e), I certify:

- ☒ (X) No certification is necessary.
- ☐ ( )
  - (1) Each item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the statement.
  - ☐ ( ) The "communication from a foreign patent office" referred to in the certification is an International Search Report, possibly issued by the U.S. Patent and Trademark Office in its capacity as an International Search Authority or International Preliminary Examining Authority.
  - ☐ ( ) The "counterpart foreign application" referred to in the certification corresponds to an ancestor or descendent application of the application for which this information disclosure statement is filed.
- ☐ ( )
  - (2) No item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, or, to my knowledge after making reasonable inquiry, was known to any individual designated in 37 C.F.R. § 1.56(c), more than three months prior to the filing of the statement.

## Part IV (Additional Statement)

An additional statement regarding these items of information ( ) is, (X) is not, enclosed.

Copies of the cited art (X) are enclosed, ( ) are of record in parent application Serial No. \_\_\_\_\_ and will be provided if the Examiner deems it convenient.

Respectfully submitted,

Dated: 13 Dec. 2000

  
Marek Albosza

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